BENGALURU SOLID WASTE MANAGEMENT LIMITED

TENDER DOCUMENT – KW4

(WORKS COSTING MORE THAN Rs.1000 LAKHS)

Name of Work - Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency.
Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site.

BENGALURU SOLID WASTE MANAGEMENT LIMITED

Office of the Deputy General Manager-2, 1st Floor, UNI Building, Thimmaiah Road, Vasanth Nagar, Bengaluru–560 052.

Phone No: 6362975012

TENDERS FOR THE WORK OF

Sl No	Name of Work	Value of Work (in Lakhs)
1	Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site.	7147.79

TENDER REFERENCE	No. DGM-2/BSWML/Tend/04/24-25, Date:09.09.2024
LAST DATE FOR SALE OF TENDER DOCUMENT	up to 04.10.2024 on or before 4.00 PM
PRE-BID MEETING WILL BE HELD ON	24.09.2024 at 3.00 PM
LAST DATE AND TIME FOR RECEIPT OF TENDERS	04.10.2024 on or before 4.00 PM
TIME AND DATE OF OPENING OF COVER ONE OF TENDERS	05.10.2024 at 4.30 PM
PLACE OF PRE-BID MEETING WILL BE HELD	Office of the Chief Engineer & Chief General Manager (Tech),BSWML, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052.
TIME AND DATE OF OPENING OF COVER TWO OF TENDERS	Will be intimated to the Qualified Tenderers
PLACE OF OPENING OF COVER TWO OF TENDERS AND ADDRESS FOR COMMUNICATION:	Office of the Chief Engineer & Chief General Manager (Tech), BSWML, 1st Floor,UNI Building, Thimmaiah Road, Bengaluru-560052.
	Off: Phone Mob: +91 6362975012

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BENGALURU SOLID WASTE MANAGEMENT

Office of the Deputy General Manager-2, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052.

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No. DGM-2/BSWML/Tend/04/24-25 Date:09.09.2024

INVITATION FOR SHORT TERM TENDER (IFT)
(Through GOK KPPP only)

1. The Deputy General Manager-2, Bengaluru Solid Waste Management Limited on behalf of the Managing Director, BSWML, Bengaluru from eligible bidders for the works detailed in the table below. The Bidders may submit tenders for works given in the table through KPPP portal of the Government of Karnataka (viz. https://kppp.karnataka.gov.in) The Bidders are advised to note the minimum qualification criteria specified in Clause 3 of the instructions to bidders to qualify for award of the contract.
2. Tender documents may be downloaded from the e-procurement portal of the Government of Karnataka.
3. Other details can be seen in the tender documents.

Sl No.	Name of the work	Amount put to tender (Rs. in lakhs) Excluding GST	EMD (Amount in Rs)	Cost of Tender Document	Contract completion period
1	Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site.	7147.79	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.70,50,000/- by Bank Guarantee/FDR issued by Nationalized/Scheduled Bank	As per KPPP portal	12 Months

2	Development of Approach Roads to at Mittiganahalli and Kannuru Landfill surroundings in Mahadevapura Constituency	3971.19	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.38,72,000/- by Bank Guarantee/FDR issued by Nationalized/Scheduled Bank	As per KPPP portal	9 Months
3	Establishment and development of new landfill site at Baiyappanahalli Sy No.80, Pit No.2 of North side including O & M in Byatarayanapura Constituency.	1985.53	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.18,90,000/- by Bank Guarantee/FDR issued by Nationalized/Scheduled Bank	As per KPPP portal	6 Months
4	Providing basic infrastructures and Development of villages around scientific landfills such as Srinivasapura, Sathanuru, Hosahalli, Madakepalya, Kannur, Bande Bommasandra, Chikkagubbi, Kadusoppanahalli, Hosur Bande, Mittaganahalli and other surroudings villages in Byatarayanapura and Mahadevapura Constituency.	1985.62	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.18,90,000/- by Bank Guarantee/FDR issued by Nationalized/Scheduled Bank	As per KPPP portal	6 Months

5	Village development works in Yeshwanthapura constituency around Seegehalli, Kannahalli & Doddabidrakallu waste processing plants. Village development works in Anekal & Bengaluru South constituency around waste Chikkanagamangala waste processing plant. Village development works in Yeshwanthapura constituency around Subbarayanapalya, Lingadheeranhalli waste processing plants.	5956.23	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.59,00,000/- by Bank Guarantee/FDR issued by Nationalized/Scheduled Bank	As per KPPP portal	12 Months
6	Establishment of New scientific landfill site in available quarry pit (Balance portion Phase-2) at Bayyappanahalli Sy. No. 80 and development of surrounding villages by creating required infrastructure in Byatarayanapura Constituency.	7148.32	Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.70,50,000/- by Bank Guarantee/FDR issued by Nationalized/Scheduled Bank	As per KPPP portal	11 Months

Note:

1. Pre bid meeting will be held on 24-09-2024 at 15:00 hours in office of the Chief Engineer & Chief General Manager (tech), BSWML, UNI Building, Thimmaiah Road, Vasanth Nagar, Bengaluru - 52.
2. Technical Documents along with necessary information/documents must be uploaded to the KPPP portal https://kppp.karnataka.gov.in as per tender document on or before 16:00 hours on 04-10-2024 and First Folder containing the Technical bid will be opened through e-portal only on 05-10-2024 after 16:30 hours at the stipulated venue, in the presence of the Tenderers or their authorized representatives who wish to attend. If the office happens to be closed on the date of opening of the tenders as specified, the tenders will be opened on the next working day at the same time and venue.
3. The Employer shall not be liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the Tenderers of any tender updates, the Employer shall not be liable for any information not received by the Tenderers. It is the Tenderers responsibility to verify the KPPP portal for the latest information related to the tender, E-mail address of the Helpdesk is hphelpdesk.blr@intarvo.com. KPPP portal help desk telephone

numbers are: 080-22371090/22373788. The tenderer is required to ensure browser capability of the computer well in advance to the last date and time for receipt of the tenders. The employer shall not be responsible for non-accessibility of KPPP portal due to internet connectivity issues and technical glitches.

4. Any corrigendum/addendum will be published in the KPPP portal only.

Sd/-
Deputy General Manager-2
BSWML

Copy Submitted to the:

1. Hon'ble Chairman, BSWML & ACS, UDD for kind information.
2. Hon'ble Managing Director, BSWML/Chief Commissioner, BBMP for kind information.
3. Chief Executive Officer, BSWML /Special Commissioner, SWM, BBMP for kind information.
4. Chief Operational Officer BSWML, for kind information.
5. Chief Financial officer BSWML /CAO, BBMP for kind information.
6. Chief Engineer & Chief General Manager(Tech) BSWML/CE (SWM), BBMP for kind information
7. Company Secretary, BSWML for kind necessary action.
8. Office Copy

Deputy General Manager-2
BSWML

SECTION 2: INSTRUCTIONS TO TENDERERS (ITT)

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A. General

1. Scope of Tender

The Deputy General Manager-2, BSWML, on behalf of the Managing Director, BSWML (Referred to as Employer in these documents) invites ITEM RATE tenders following Two Cover tender procedure, from eligible Tenderers, for the works of "Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site." (as defined in these documents and referred to as "the works") detailed in the Table given in the Invitation for Tenders (IFT). The Tenderers may submit tenders for any or all of the works detailed in the table given in IFT.

2. Eligible Tenderers

Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by theGovernment of Karnataka/BBMP. A Bidder shall be any individual, Firm, Agency registered BBMP, BDA, NH, PWD, CPWD or other central/state agencies with qualification as set forth in clause 3 below.

Tenders from Joint ventures are not acceptable.

3. Qualification of the Tenderer:

All Tenderers shall provide the requested information accurately and in sufficient detail in Section 3: Qualification information.
To qualify for award of this contract, each Tenderer in its name should have in the last five financial years (i.e. **2019-20 to 2023-24**)

(a) Achieved in at least two financial years a minimum financial turnover (in all classes of Civil works and Solid Waste Management works) of **Rs.14295.58 lakhs**

(b) Mandating satisfactorily completion as a prime contractor, at least one similar nature of work in works to as extent of 50% of the cost of the work **(Rs.3573.90 lakhs)**

(c) executed in any one financial year, the following minimum quantities of work: (usually 80% of the peak annual rate of construction)

SL No	Item	Unit	Qty
1	Earthwork Excavation	Cum	75329.00
2	Cement Concrete in all grade	Cum	5288.00
3	TMT Steel	Tonne	204.00
4	GSB	Cum	9683.00
5	Constructions of Dry Lean Concrete	Cum	2022.00
6	WMM	Cum	8683.00
7	DBM	Cum	2315.00
8	BC	Cum	1829.00
9	Construction of Embankment	Cum	194336.00
10	Geosynthetic Clay Liner	Sqm	137349.00
11	1.5mm thick black HDPE textured Geomembrane	Sqm	137349.00
12	Supply & Installation of Non-Woven Geotextile	Sqm	137349.00
13	Providing bio product solutions	Litres	894000.00
14	Supplying preparation & spraying of lemon grass	Litres	925200.00

(d) Deleted

(e) Deleted

Each Tenderer should further demonstrate:

(a) Availability by owning at least 50% of the required / specified key and critical equipment for this work and the

remaining 50% can be deployed on lease / hire basis for all works provided the relevant documents (commitment agreements etc.) for availability for this work are furnished.

Sl No	Descriptions	Nos	Own/Lease
1	Hot Mix Plant (Minimum capacity of 40/60 TPH)	1	Own
2	Mechanical paver finisher	2	Own
3	Vibratory roller	2	Own
4	Static road roller	2	50% Own/ 50% lease
5	Tippers	12	50% Own/ 50% lease
6	Excavators like JCB/Hitachi	10	50% Own/ 50% lease
7	Water tanker	4	50% Own/ 50% lease

(b) Liquid assets and /or availability of credit facilities of not less than Rs.2144.35 Lakhs (Credit lines/ letter of credit/ certificates from banks for meeting the fund requirement etc.

To qualify for a package of contracts made up of this and other contracts for which tenders are invited in this IFT, the Tenderer must demonstrate having experience and resources to meet the aggregate of the qualifying criteria for the individual contracts.
Sub-contractors" experience and resources shall not be taken into account in determining the Tenderer's compliance with the qualifying criteria except to the extent stated in 3.2 (d) and (e) above.
Tenderers who meet the above specified minimum qualifying criteria, will only be qualified, if their available tender capacity is more than the total tender value. The available tender capacity will be calculated as under:

Assessed available tender capacity = (A*N*1.5 - B)

Where

A = Maximum Value of Civil Engineering Works executed in any One Year during the last Five years **(updated to 2024-25 Price Level)** taking into account the Completed as well as Works in Progress.
N = Number of years prescribed for Completion of the Works for which Tenders are Invited i.e. 12 Months.
B = Value, at **2024-2025 Price Level on 10% Weightage per annum**, of Existing Commitments and on Going Works to be completed during the next 12 months including Monsoon Season.

Note: The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Employer in charge, not below the rank of an Executive Engineer or equivalent.

Even though the Tenderers meet the above criteria, they are subject to be disqualified if they have:

- made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and/or
- Participated in the previous Tender for the same work and had quoted unreasonably high tender prices and could not furnish rational justification.

4. One Tender per Tenderer

Each tenderer shall submit only one tender for one package. A tenderer who submits or participates in more than one Tender (other than as a sub-contractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Tenderer's participation to be disqualified.

5. Cost of Tendering:

The tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible and liable for those costs.

6. Site visit:

The Tenderer at his own responsibility and risk is encouraged to visit and examine the Site of Works and its

surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The cost of visiting the Site shall be at the Tenderer‟s own expense.

B. Tender documents

7. Content of Tender documents

The set of tender documents shall have all the Sections given in Page **3**
Both the sets should be completed and returned with the tender.

8. Clarification of Tender Documents

A prospective tenderer requiring any clarification of the tender documents may notify the Employer in writing or by cable (hereinafter "cable" includes telex and facsimile) at the Employer's address indicated in the invitation to tender. The Employer will respond to any request for clarification which he receives earlier than 15 days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all purchasers of the tender documents, including a description of the enquiry but without identifying its source.

Pre-tender meeting:

The tenderer or his authorized representative is invited to attend a pre-tender meeting which will take place at Office of the Office of the Chief Engineer & Chief General Manager (Tech), BSWML, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052 **on 24.09.2024 at 3.00 PM.**
The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
The tenderer is requested to submit any questions in writing or by cable to reach the Employer not later than **24.09.2024 at 4.00PM.**
Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all purchasers of the tender documents. Any modification of the tender documents listed in Sub-Clause 7.1 which may become necessary as a result of the pre-tender meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 9 and not through the minutes of the pre-tender meeting.
Non-attendance at the pre-tender meeting will not be a cause for disqualification of a tenderer.

9. Amendment of Tender documents

Before the deadline for submission of tenders, the Employer may modify the tender documents by issuing addenda.
Any addendum thus issued shall be part of the tender documents and shall be communicated in writing or by cable to all the purchasers of the tender documents.
To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend as necessary the deadline for submission of tenders, in accordance with Sub-Clause 16.2 below

C. Preparation of Tenders

10. Documents comprising the Tender

The tender submitted by the Tenderer shall be in two covers and shall contain the documents as follows:

First Cover:
(a) Earnest Money Deposit;
(b) Qualification Information as per formats given in Section 3;

Second Cover:
(a) The Tender (in the format indicated in Section 4)
(b) Priced Bill of Quantities (Section 9);

and any other materials required to be completed and submitted by Tenderers in accordance with these instructions. The documents listed under Sections 3, 4, 6 and 9 shall be filled in without exception.
Tenderers submitting tenders together with other contracts stated in the IFT to form a package will so indicate in the tender together with any discounts offered for the award of more than one contract.

11. Tender prices

The contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Tenderer.
The Tenderer shall fill in rates and prices and line-item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total tender price (both in figures and words). **Items for which no rate or price is entered by the Tenderer will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities**. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Tenderer.
The rates and prices quoted by the Tenderer shall be subject to adjustment during the performance of the Contract in accordance with the provisions of Clause of the Conditions of Contract

12. Tender validity

Tenders shall remain valid for a period not less than **One Hundered Eighty days (180)** after the deadline date for tender submission specified in Clause 16. A tender valid for a shorter period shall be rejected by the Employer as non-responsive.

In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the Tenderers may extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing or by cable. A Tenderer may refuse the request without forfeiting his earnest money deposit. A Tenderer agreeing to the request will not be required or permitted to modify his tender, but will be required to extend the validity of his earnest money deposit for a period of the extension, and in compliance with Clause 13 in all respects.

13. Earnest money deposit

The Tenderer shall furnish, as part of his tender, Earnest Money Deposit (EMD) in the amount as mentioned in IFT for this particular Work. Further, out of the total EMD Amount only Rs. 1.00 Lakh (RupEEs One Lakh only) shall be paid in the kppp portal using any of the following modes and the Balance Amount shall be in the form of Bank Guarantee from any Bank.

- Credit Card.
- Direct Debit.
- National Electronic Fund Transfer (NEFT).
- Over the Counter (OTC).

NEFT Payment Procedure:

If a Tenderer chooses to make Payment of EMD / Tender Processing FEE using Reserve Bank of India's (RBI) National Electronic Fund Transfer (NEFT) System, the Tenderer will need to log into kpppSystem, access the Tender for which Bid is being created and then select the NEFT Option under the Payment Section and print the Challan shown in that Section. The Printed Challan will have the Unique Bid Reference Number, Account Details of Government of Karnataka and the Amount to be remitted. The Tenderer shall submit the Printed Challan to its Bank Branch (NEFT enabled) and request foran Account – to – Account Transfer, wherein the money will get transferred from the Tenderer‟s Bank Account to GOK‟s Bank Account. The Tenderer shall ensure that NEFT Transfer Instructions are executed and the Funds are wired to the Government of Karnataka's Principal Account before the Last Date for Bid Submission and preferably 24 hours before the Last Date for Bid Submission. If the Tenderer‟s Bank transfers / wires the money after the Last Date for Bid Submission, the Tenderer‟s Bid will be liable for rejection. Upon executing the Transfer, the Tenderer's Bank will provide a Reference Number generated by NEFT Software as Confirmation of Transfer, which has to be input by the Tenderer in the Payment Section of its Bid as Payment Confirmation before the Bid is submitted i.e. as a pre requisite for Bid Submission. The Account Number from which the Funds were transferred shall be input in the KPPP System as part of its Bid also.

OTC Payment Procedure:

If a Tenderer chooses to make Payment of EMD / Tender Processing FEEs Over The Counter (OTC) in any of the designated Axis Bank Branches listed in the KPPP Website (www.kppp.karnataka.gov.in), the Tenderer will need to log intoKPPP System, access the Tender for which Bid is being created and then select the OTC Option under the PaymentSection and print the Challan shown in that Section. The Printed Challan will have the Unique Bid Reference Number andthe Amount to be remitted along with the Challan. The Tenderer can choose to make the Payment either in the form of Cash or in the form of Demand Draft. Cheque Payments will not be accepted. The Tenderer is requested to specifically inform the Bank Officer to input the Unique Bid Reference Number printed in the Challan in the Banking Software. Upon successful Receipt of the Payment, the Bank will provide a 16 Digit Reference Number acknowledging the Receipt of Payment. This 16 Digit Reference Number has to be input by the Tenderer in the Payment Section of its Bid as Payment Confirmation before the Bid is submitted i.e. as a pre requisite for Bid Submission.

The Tenderer shall furnish, as part of his tender, earnest money deposit (EMD) at the following rates
a) upto Rs.20 Lakhs - 2.5%
b) Rs.20 Lakhs and above upto Rs. 1 crore – 2% subject to a minimum of Rs. 50,000/-
c) Rs.1 crore and above upto Rs.10 crores – 1% subject to a minimum of Rs. 2,00,000/-
d) Rs.10 crores and above – 1% subject to a minimum of Rs.15,00,000/-.

e) Fixed Deposit Receipt (FDR) subject to the following condition

- Maturity date of FDRs issued by the Bank should be beyond the date expected date of finalization of the tender.

Earnest money deposit will have to be in any one of the forms as specified in the Tender document and as per circular PWD:15:ITC:2008/2009 Dated:02-12-2010 (Minimum of Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance by bank guarantee/FDR issued by Nationalized/ Scheduled Bank and shall have to be valid for 90 days beyond the validity of the tender.
Instruments having fixed validity issued as earnest money deposit for the tender shall be valid for 90 days **beyond** the validity of the tender.
Any tender not accompanied by an acceptable earnest money deposit and not secured as indicated in Sub-Clauses 13.1 and 13.2 above shall be rejected by the Employer as non-responsive.
The earnest money deposit of unsuccessful Tenderers will be returned within 30 days of the end of the tender validity period specified in Sub-Clause 12.1.
The earnest money deposit of the successful Tenderer will be discharged when the Tenderer has signed the Agreement and furnished the required Performance Security.

The earnest money deposit may be forfeited:
(a) if the Tenderer withdraws the Tender after tender opening during the period of tender validity;
(b) if the Tenderer does not accept the correction of the Tender Price, pursuant to Clause 24; or
(c) in the case of a successful Tenderer, if the Tenderer fails within the specified time limit to
(i)sign the Agreement; or
(ii) furnish the required Security deposit

14. Format and signing of Tender

Tenderer shall submit the Bid electronically before the submission date and time published in kpp portal.

D. Submission of Tenders

15. Sealing and marking of tenders

Tenderer shall submit the Tender document electronically before the submission date and time published. The document for submission shall be uploaded in PDF format and submitted in the order mentioned below.

1. Content sheet with name of folder / file, No of pages in each folder / file and size of the folder/file.

FIRST COVER /FOLDER (TECHNICAL PART)
2. As per Section 3 - Qualification information
a. Qualification information summary sheets

b. Affidavit as per the format attached in qualification information.
c. Brief description of tenderer with the details of contact person for communication with BSWML
d. Attested copy of Registration certificate of the contractor
e. EMD as specified in the Table of I TT in the document.
f. Power of attorney for signing the tender as per the format attached in qualification information.
g. Work performed & quantity executed as per Table with supporting certificates from client for the claims mentioned in tables of qualification information.
h. Tables Qualification information with supporting certificate from client &calculation sheet for available tender capacity.
i. Availability of machinery as per Table of qualification information.
j. Experience & qualification of key persons as per Table of qualification information.
k. Financial statement for past five F.Y, contains balance sheet, profit& loss, statement on cash on hand, liquid assets etc from Charted Accountant.
l. Line of credit and details of tenderers bank with reference as per format attached in qualification information.
n. Litigation history as per Table. Of qualification information.
o. Method adopted for construction program, bar chart, quality assurance program as per clause 1.13 of qualification information
p. Undertaking for the tender is valid for 180 days as per clause 1.14 of qualification information.

SECOND COVER/FOLDER (FINANCIAL PART)

a. Form of tender as per section 4 (I) of tender document.
b. Priced Bill of Quantity.
c. Any other materials required to be completed and submitted by Tenderers in accordance with ITT.

Deleted
Deleted

16. Deadline for submission of the Tenders

Tenders must be received by the Employer at the address specified above no later than **4.00PM hours on 04.10.2024** In the event of the specified date for the submission of tenders being declared a holiday for the Employer, the tenders will be received up to the appointed time on the next working day.
The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with Clause 9, in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

17. Late Tenders

Any Tender received by the Employer after the deadline prescribed in Clause 16 will be returned unopened to the Tenderer.

18. Modification and Withdrawal of Tenders

Tenderers may modify contents of First or Second Covers separately for each Cover or withdraw their Tenders by giving notice in writing before the deadline prescribed in Clause 16.
Each Tenderer's modification separately for each Cover or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 14 & 15, with the outer and inner envelopes additionally marked "**MODIFICATION FOR FIRST/SECOND COVER**" or "**WITHDRAWAL**", as appropriate.
No Tender may be modified after the deadline for submission of Tenders.
Withdrawal or modification of a Tender between the deadline for submission of Tenders and the expiration of the original period of Tender validity specified in Clause 12.1 above or as extended pursuant to Clause 12.2 may result in the forfeiture of the earnest money deposit pursuant to Clause 13.
1 8.5 Tenderers may only offer discounts to, or otherwise modify the prices of their Tenders by submitting Tender modifications in accordance with this clause, or included in the original Tender submission.

E. Tender opening and evaluation

19. Opening of First Cover of all Tenders and evaluation to determine qualified Tenderers:

The Employer will open the First Covers of all the Tenders received (except those received late or withdrawn), including

modifications for First Cover made pursuant to Clause 18, in the presence of the Tenderers or their representatives who choose to attend at 05.10.2024 at 4.30 PM on the date and the place specified in Clause 16. In the event of the specified date of Tender opening being declared a holiday for the Employer, the Tenders will be opened at the appointed time and location on the next working day.

Deleted

The Tenderers names, the presence or absence of earnest money deposit (amount, format and validity), the submission of qualification information and such other information as the Employer may consider appropriate will be announced by the Employer at the opening.

The Employer shall prepare minutes of the Tender opening, including the information disclosed to those present in accordance with Sub-Clause 19.3.

Deleted

The Employer will evaluate and determine whether each tender

(a) meets the eligibility criteria defined in ITT Clause 2;

(b) is accompanied by the required earnest money deposit as per stipulations in ITT Clause and

(c) Meets the minimum qualification criteria stipulated in ITT Clause 3. The Employer will draw out a list of qualified Tenderers.[2]

20. Opening of Second Cover of qualified Tenderers and evaluation:

The Employer will inform all the Qualified Tenderers the time, date and venue fixed for the opening of the Second Cover containing the priced Tenders. The Employer will open the Second Covers of Qualified Tenderers at the appointed time and date(as indicated in the kppp portal) in the presence of the Tenders or their representatives who choose to attend. In the event of the specified date of Second Cover opening being declared a holiday for the Employer, the Second Covers will be opened at the appointed time and location on the next working day.

Deleted

Deleted

The Employer shall prepare minutes of the Second Cover Tender opening.

21. Process to be confidential

Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.

22 Clarification of Tenders

To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders in accordance with Clause 24.

Subject to sub-clause 22.1, no Tenderer shall contact the Employer on any matter relating to its Tender from the time of the Tender opening to the time the contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Employer, it should do so in writing.

Any effort by the Tenderer to influence the Employer in the Employer’s Tender evaluation, Tender comparison or contract award decisions may result in the rejection of the Tenderers‟ Tender.

23. Examination of Tenders and determination of responsiveness

Prior to the detailed evaluation of Tenders, the Employer will determine whether each Tender;

(a) has been properly signed; and;

(b) is substantially responsive to the requirements of the Tender documents.

A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is one

(a) which affects in any substantial way the scope, quality, or performance of the Works;

(b) which limits in any substantial way, inconsistent with the Tender documents, the Employer's rights or the Tenderer's obligations under the Contract; or

(c) whose rectification would affect unfairly the competitive position of other Tenderers presenting substantially

responsive Tenders.
If a Tender is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

24. Correction of errors

The Tenderer may modify the tender only before the last date for submission of the tender, as indicated on the kppp portal.

25. Evaluation and comparison of Tenders

The Employer will evaluate and compare only the Tenders determined to be substantially responsive in accordance with Clause 23.
Deleted (Since Bids submitted online only)
The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations,deviations, and alternative offers and other factors which are in excess of the requirements of the Tender documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Tender evaluation.

The estimated effect of the price adjustment conditions under Clause 41 of the Conditions of Contract, during the implementation of the Contract, will not be taken into account in tender Evaluation
If the tender of the successful tenderer is seriously unbalanced in relation to the Employer's estimate of the cost of the work to be performed under the contract, the Employer may require the Tenderer to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with theconstruction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 29 be increased at the expense of the successful Tenderer to a level sufficient to protect the Employer against financial loss in the event of default of the successful under the contract.

F. Award of Contract

26. Award criteria

Subject to Clause 27, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price, provided that such Tenderer has been determined to be

(a) eligible in accordance with the provisions of Clause 2, and
(b) qualified in accordance with the provisions of Clause 3.

27. Employer's right to accept any Tender and to reject any or all Tenders

Not with standing Clause 26, the Employer reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds forthe Employer's action.

28. Notification of award and signing of Agreement

The Tenderer whose Tender has been accepted will be notified of the award by the Employer prior to expiration of the Tender validity period by cable, telex, e-mail or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
The notification of award will constitute the formation of the Contract, subject only to the furnishing of Security deposit in accordance with the provisions of Clause 29.
The Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be kept ready for signature of the successful Tenderer in the office of Employer within 30 days following the notification of award along with the Letter of Acceptance. Within 20 days of receipt, the successful Tenderer will sign the Agreement and deliver it to the Employer.
Upon the furnishing by the successful Tenderer of the Performance Security, the Employer will promptly notify the other Tenderers that their Tenders have been unsuccessful.

29. Security deposit

Within 20 days of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to 5% of the Contract price plus additional security for unbalanced tenders in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract for all works.*:*

- Cash or
- Banker‟s cheque/Demand draft/Pay Order in favour of Managing Director, BSWML payable at Bangalore or
- A bank guarantee in the form given in Section 10; or
- Specified Small Savings Instruments pledged to Managing Director, BSWML payable at Bangalore

If the security deposit is provided by the successful Tenderer in the form of a Bank Guarantee, it shall be issued either by a Nationalized/Scheduled bank.

The security deposit if furnished in cash or demand draft can, if requested, be converted to interest bearing securities at the cost of the successful Tenderer/ contractor.
Failure of the successful Tenderer to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money deposit.

30 Advance Payment and Security:

The Employer will provide an advance payment on the contract price as stipulated in the Conditions of Contract, subject to the maximum amount as stated in the Contract Data.

31. Corrupt or Fraudulent practices

The BSWML requires that the Tenderers/Suppliers/Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, BSWML :

(a) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a BSWML contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a BSWML contract.

Furthermore, Tenderers shall be aware of the provision stated in sub-clause 50.2 of the Conditions of Contract.

SECTION 3: QUALIFICATION INFORMATION

The information to be filled in by the Tenderer hereunder will be used for purposes of computing Tender capacity as provided for in Clause 3 of the Instructions to Tenderers. This information will not be incorporated in the Contract.

Constitution or legal status of Tenderer [Attach copy]

Place of Registration _____ (Attach Copy)

Principal place of business: _____

Total value of civil engineering construction works executed and payments received in the last five years (in Rs. Lakhs) Attach Certificate from Chartered Accountant

2019 - 20 ……..
2020 - 21 ……..
2021 - 22 ……..
2022 - 23…….
2023 - 24…….

Work performed as Prime Contractor (in the same name) on works of similar nature over during the five years specified in 1.2 above.

Project Name	Name of Employer	Descrip-tion of Work	Contract Number	Value of Contract Rs. Lakhs	Date of issue of work order	Specified period of completion	Actual date of Actual date of	Remarks explaining reasons for delay in completion of work
1	2	3	4	5	6	7	8	9

Quantities of work executed as prime contractor (in the same name) during the last five years specified in 1.2 above:

Year	Name of Work	Name of Employer	Quantity of work performed (cum)[3]			Remarks (Indicate contract reference)
			Cement Concrete	Masonry	Earthworks	
2019-20						
2020-21						
2021-22						
2022-23						
2023-24						

Information on works for which Tenders have been submitted and works which are yet to be completed as on the date of this Tender.

(A) <u>Existing commitments and on-going works:</u>

Description of Work	Place & State	Contract No. & Date	Name And Address of Employer	Value of Contract (Rs. lakhs)	Stipulated period of completion	Value of works remaining to be completed (Rs. lakhs) Attach Certificates from Engineers –in-Charge	Anticipated date of completion
1	2	3	4	5	6	7	8

(B) Works for which Tenders already submitted:

Description of Work	Place & State	Name and Address of Employer	Estimated value of works (Rs. lakhs)	Stipulated period of completion	Date when decision is expected	Remarks if any
1	2	3	4	5	6	7

1.6. The following items of equipment are considered essential for successfully carrying out the works. The Tenderer should furnish all the information listed below.

Item of Equipment	**Requirement**		
As mentioned above			

Reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the last five years;
Qualification and experience of the key technical and management personnel in permanent employment with the tenderer and those that are proposed to be deployed on this contract, if awarded.

Position	Names	Qualification	Year of Experience (General)	No's required
Project Manager		BE in Environmental Engg	3-5 Yrs – in Civil Engineering -Construction projects	3
Site Engineer		BE in Civil Engg	5 Yrs – in BE Civil Engineering -Construction projects	5

1.9. Name, address, and telephone, telex, and fax numbers of the Tenderers' bankers who may provide references if contacted by the Employer. Evidence of access to financial resources to meet the qualification requirement specified in ITT Clause3.3 (b): Cash in hand, Letter of Credit etc. List them below and attach certificate from the Banker in the suggested format as under:

ON BANKS LETTER HEAD

……..

FORMAT OF BANKER'S CERTIFICATE/ LINE OF CREDIT LETTER

(TO BE ISSUED IN THE LETTER HEAD OF THE BANK BRANCH)

Reference Number (Sl. No.)

Place:

Date :

To:

(Name of Address of the Beneficiary)

This is to certified that, Mr./ Mrs. …… (Name of the Customer) having his/ their registered/ Administrative office at ……. Is a customer of our bank and is/ are engaged in …….. (Name of activity). If the said customer is allotted/ awarded with ……. (Brief details of works), we may extend the credit facilities up to Rs. ……. Lakhs to meet his/ their working capital requirement towards the execution of the said work order as per the loan policy of the Bank.

This certificate is valid up to 3 months from the date of issue, i.e. up to dd/mm/yyyy.

Yours faithfully,

Branch Manager.

Proposals for subcontracting components of works amounting to more than 20% of the contract price.

Item of Work	Value of Sub-Contract	Identified Sub-Contractor (Name and address)	Experience of similar work (Attach certificates from the respective Employers.)
1	2	3	4

Information on litigations in which the Tenderer is involved:

Other Party (ies)	Employer	Details of dispute	Amount involved	Remarks showing present status

The proposed methodology and program of construction, backed with equipment planning and deployment, duly supported with broad calculations and quality control procedures proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications within the stipulated period of completion as per milestones.

SECTION 4: FORMS OF TENDER, LETTER OF ACEPTANCE, NOTICE TO PROCEED WITH THE WORK AND AGREEMENT FORM

Form of Tender

"Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency.
Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site.**"**

To,

Deputy General Manager-2,
BSWML, 1st Floor,UNI
Building, Thimmaiah Road,
Vasanth Nagar, Bangalore-52.

GENTLEMEN,

We offer to execute the Works described above in accordance with the Conditions of Contract accompanying this Tender for the Contract Price of …….. *[in figures]* (.....) *[in letters]*.[4]

This Tender and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any Tender you receive.

The advance payment required is Rs……

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988" hereby confirm that this Tender complies with the Tender validity and Earnest money deposit required by the Tenderdocuments.

We attach herewith our current income-tax clearance certificate.

Yours faithfully,

Authorized Signature:
Name & Title of Signatory: _____

Name of Tenderer _____
Address: .....

[4] To be filled in by the Tenderer, together with his particulars and date of submission at the bottom of the Form of Tender

Letter of Acceptance

(letterhead paper of the Employer)

…….[date]

To:

…….

…….[name and address of the Contractor]

Dear Sirs,

This is to notify you that your Tender dated.....for execution of the "Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site. ".....for the Contract Price of Rupees……..……..…… (……) [amount in words and figures], as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by our Agency.

You are hereby requested to furnish Security deposit plus additional security for unbalanced tenders in terms of Clause 25.5 of ITT, in the form detailed in Clause 29.1 of ITT for an amount of Rs .....within 20 days of the receipt of this letter of Acceptance valid up to 30 days from the date of expiry of Defects Liability Period i.e. up to.....and sign the contract, Failing which action as stated in Para 29.4 of ITT will be taken.

Yours faithfully,

Authorized Signature
Name and Title of Signatory
Name of Agency

Issue of Notice to proceed with the work

(Letterhead of the Employer)

…….(date)

To

……

……

…… (name and address of the Contractor)

Dear Sirs:

Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 29.1 and signing of the contract agreement for the construction of "Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site." A Tender Price of Rs…….you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory

Authorized to sign on behalf of Employer)

Agreement Form

Agreement

This agreement, made the …….day of …….20 ..... , between……
…….[name and address of Employer]
(hereinafter called "the Employer") of the one part and ……..…….……
……...[name and address of contractor] (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that the Contractor execute ……...
……
……[name and identification number of Contract] (hereinafter called "the Works") and the Employer has accepted the Tender by the Contractor for the execution and completion of such Works and the remedying of any defects therein at a contract price of Rupees'.....

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
   - i) Letter of Acceptance;
   - ii) Notice to proceed with the works;
   - iii) Contractor"s Tender;
   - iv) Contract Data;
   - v) Conditions of contract (including Special Conditions of Contract);
   - vi) Specifications;
   - vii) Drawings;
   - viii) Bill of Quantities; and
   - ix) Any other document listed in the Contract Data as forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of ……
……
was hereunto affixed in the presence of:
Signed, Sealed and Delivered by the said
……
……

in the presence of:
Binding Signature of Employer

……

Binding Signature of Contractor

…….

SECTION 5: CONDITIONS OF CONTRACT

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Conditions of Contract

A. General

1. Definitions

Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Bold letters are used to identify defined terms.
Bill of Quantities means the priced and completed Bill of Quantities forming part of the Tender.
Compensation events are those defined in Clause 38 hereunder.
The **Completion Date** is the date of completion of the Works as certified by the Employer in accordance with Sub Clause 46.1.
The **Contract** is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Clause 2.2 below.
The **Contract Data** defines the documents and other information which comprise the Contract.
The **Contractor** is a person or corporate body whose Tender to carry out the Works has been accepted by the Employer.
The **Contractor's Tender** is the completed Tender document submitted by the Contractor to the Employer.
The **Contract price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
Days are calendar days; **months** are calendar months.
A **Defect** is any part of the Works not completed in accordance with the Contract.
The **Defects liability period** is the period named in the Contract Data and calculated from the Completion Date which is 12 months for this project.
The **Employer** is the party who will employ the Contractor to carry out the Works.
Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
The **Initial Contract price** is the Contract Price listed in the Employer's Letter of Acceptance.
The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Employer by issuing an extension of time.
Maintenance Period is the period named in the Contract Data, during which Contractor shall maintain the works completed by him for a period of 12 months effective from last day of Defect Liability Period
Materials are all supplies, including consumables, used by the contractor for incorporation in the Works.
Plant is any integral part of the Works which is to have a mechanical, electrical, electronic or chemical or biological function.
The **Site** is the area defined as such in the Contract Data.
Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Employer.
The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the works. It does not necessarily coincide with any of the Site Possession Dates.
A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.
A **Variation** is an instruction given by the Employer which varies the Works.
The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the Contract Data.

2. Interpretation

In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Employer will provide instructions clarifying queries about the Conditions of Contract.
The documents forming the Contract shall be interpreted in the following order of priority:

(1) Agreement
(2) Letter of Acceptance, notice to proceed with the works
(3) Contractor‟s Tender
(4) Contract Data

(5) Conditions of Contract
(6) Specifications
(7) Drawings
(8) Bill of quantities and
(9) any other document listed in the Contract Data as forming part of the Contract.

3. Law governing contract

The law governing the Contract is the Laws of India supplanted by the Karnataka Local Acts.

4. Employer's decisions

Except where otherwise specifically stated, the Employer will decide contractual matters between the Employer and the Contractor.

5. Delegation

The Employer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6. Communications

Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Subcontracting (Deleted)

Deleted.

8. Other Contractors

The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer.

9. Personnel

The Contractor shall employ the technical personnel (of number and qualifications) as may be stipulated by GOK from time to time during the execution of the work. The technical staff so employed shall be available at site as may be stipulated by the Employer.
If the Employer asks the Contractor to remove a person who is a member of the Contractor‟s staff or his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer’s and Contractor's risks

The Employer carries the risks which this Contract states are Employer‟s risks, and the Contractor carries the risks which this Contract states are Contractor‟s risks.

11. Employer's risks

The Employer is responsible for the excepted risks which are:
(a) rebellion, riot commotion or disorder unless solely restricted to employees of the Contractor or his Sub-Contractors arising from the conduct of the Works; or
(b) a cause due solely to the design of the Works, other than the Contractor‟s design; or
(c) any operation of the forces of nature (in so far as it occurs on the Site) which an experienced contractor:
    (i) could not have reasonably foreseen; or
    (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures;

(A) prevent loss or damage to physical property from occurring by taking appropriate measures or
(B) insure against such loss or damage

12. Contractor's risks

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. Insurance:

The Contractor shall prior to commencing the works, effect and thereafter maintain insurances , in the joint names of the Employer and the Contractor, (cover from the first working day after the Start Date to the end of Defects Liability Period), in the amounts stated in the Contract Data :

(a) for loss of or damage to the Works, Plants and Materials and the Contractor‟s equipment;
(b) for liability of both Parties for loss, damage, death and injury to third parties or their property arising out of the Contractor‟s performance of the Contract including the Contractor‟s liability for damage to the Employer‟s property other than the Works and
(c) for liability of both Parties and of any Employer‟s representative for death and injury to the Contractor‟s personnel except to the extent that liability arises from the negligence of the Employer, any Employer‟s representative or their Employees.

Policies and certificates for insurance shall be delivered by the Contractor to the Employer for his approval before the Start Date. All such insurance shall provide for compensation to be payable to rectify the loss or damage incurred. All payments received from insurers relating to loss or damage shall be held jointly by the Parties and usedfor the repair of the loss or damage or as compensation for loss or damage that is not to be repaired.

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous sub-clauses or fails to provide satisfactory evidence, policies or receipts, the Employer may without prejudice to any other right or remedy, effect insurance for the cover relevant to such default and pay the premiums due and recover the same as a deduction from any other monies due to the Contractor. If no payments is due, the payment of the premiums shall bea debt due.

Alterations to the terms of an insurance shall not be made without the approval of the Employer.

Both Parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports:

The Contractor, in preparing the tender, shall rely on any site investigation reports referred to in the Contract data, supplemented by any information available to the Tenderer.

15. Queries about the Contract Data

The Employer will clarify queries on the Contract Data.

16. Contractor to construct the Works

The Contractor shall construct the Works in accordance with the Specification and Drawings.

17. The Works to be completed by the Intended Completion Date

The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the program submitted by the Contractor, as updated with the approval of the Employer, and complete them by the Intended Completion Date.

18. Approval by the Employer:

The Contractor shall submit Specification and drawings showing the proposed Temporary Works to the Employer, who is to approve them if they comply with the Specifications and Drawings.

The Contractor shall be responsible for the design of Temporary Works

The Employer‟s approval shall not alter the Contractor‟s responsibility for design of the Temporary Works.

The Contractor shall obtain approval of third parties to the design of third parties to the design of the temporary Works where required.
All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Employer before their use.

19. Safety

The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20..1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor is to notify the Employer of such discoveries and carry out the Employer's instructions for dealing with them.

21. Possession of the Site

The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be Compensation Event.

22. Access to the Site

The Contractor shall allow the Employer and any person authorized by the Employer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled for the works.

23. Instructions

The Contractor shall carry out all instructions of the Employer which comply with the applicable laws where the Site is located.

24. Procedure for resolution of Disputes:

If the Contractor is not satisfied with the decision taken by the Employer, the dispute shall be referred by either party to Arbitration within 30 days of the notification of the Employer‟s decision.
If neither party refers the dispute to Arbitration within the above 30 days, the Employer‟s decision will be final and binding.
The Arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

B. Time Control

25. Program

Within the time stated in the Contract Data the Contractor shall submit to the Employer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works.
The Employer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Employer again at any time. A revised Program is to show the effect of Variations and Compensation Events.

26. Extension of the Intended Completion Date

The Employer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.
The Employer shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Employer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information.

27. Delays ordered by the Employer

The Employer may instruct the Contractor to delay the start or progress of any activity within the Works.

28. Management meetings

The Employer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the progress achieved and the plans for remaining work.
The responsibility of the parties for actions to be taken is to be decided by the Employer either at the management meeting or after the management meeting and stated in writing to be distributed to all who attended the meeting.

C. Quality Control

29. Identifying defects

The Employer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Employer may instruct the Contractor to search for a Defect and to uncover and test any work that the Employer considers may have a Defect

30. Tests

If the Employer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect the test shall be a Compensation Event.

31. Correction of defects

The Employer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Employer's notice.

32. Uncorrected defects

If the Contractor has not corrected a Defect within the time specified in the Employer's notice, the Employer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

D. Cost Control

33. Bill of Quantities (BOQ)

The BOQ shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.
The BOQ is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the BOQ for each item

34. Variations

The Employer shall have power to order the Contractor to do any or all of the following as considered necessary or advisable during the progress of the work by him

(a) Increase or decrease of any item of work included in the Bill of Quantities (BOQ);
(b) Omit any item of work;
(c) Change the character or quality or kind of any item of work;
(d) Change the levels, lines, positions and dimensions of any part of the work;
(e) Execute additional items of work of any kind necessary for the completion of the works; and
(f) Change in any specified sequence, methods or timing of construction of any part of the work.

The Contractor shall be bound to carry out the work in accordance with any instructions in this connection, which may be given to him in writing by the Employer and such alteration shall not vitiate or invalidate the contract.

Variations shall not be made by the Contractor without an order in writing by the Employer, provided that no order in writing shall be required for increase or decrease in the quantity of an item appearing in the BOQ so long as the work executed conforms to the approved drawings.
The Contractor shall promptly request in writing to the Employer to confirm verbal orders and the officer issuing oral instructions shall confirm it in writing within 30 days, failing which the work shall be carried out as though there is no variation. In case variation is approved it shall be accompanied by BOQ, failing which the contractor shall be responsible for deviation if any. Further, approval of Govt. / BSWML has to be obtained for the variation exceeding 5%.

35. Payments for Variations

Payment for increase in the quantities of an item in the BOQ up to 25% of that provided in the Bill of Quantities shall be made at the rates quoted by the Contractor.
For quantities in excess of 125% of the tendered quantity of an item as given in the BOQ, the Contractor shall be paid at the rate entered in or derived from in the Schedule of Rates (applicable for the area of the work and current atthe time of award of contract) plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract.
If there is no rate for the additional, substituted or altered item of the work in the BOQ, efforts would be made to derive the rates from those given in the BOQ or the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) and if found feasible the payment would be made at the derived rate for the item plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract
If the rates for additional, substituted or altered item of work cannot be determined either as at 35.1 or 35.2 or 35.3 above, the Contractor shall be requested to submit his quotation for the items supported by analysis of the rate or rates claimed, within 7 days.
If the Contractor's quotation is determined unreasonable, the Employer may order the Variation and make a change to the Contract Price which shall be based on Employer's own forecast of the effects of the Variation on the Contractor's costs.
If the Employer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
Under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates for items falling under this Clause.

36. Submission of bills for payment

The Contractor shall submit to the Employer monthly bills of the value of the work completed less the cumulative amount paid previously.
The Employer shall check the Contractor's bill and determine the value of the work executed which shall comprise of (i) value of the quantities of the items in the BOQ completed and (ii) valuation of Variations and Compensation Events.
The Employer may exclude any item paid in a previous bill or reduce the proportion of any item previously paid in the light of later information.

37. Payments

Payments shall be adjusted for deductions for advance payments other than recoveries in terms of contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The contractor shall be liable to pay liquidated damages for shortfall in progress. For progress beyond theagreed programmer payment is subject to availability of the grants.
Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

38. Compensation events

The following are Compensation events unless they are caused by the Contractor:

(a) The Employer does not give access to a part of the Site by the Site Possession Date stated in the Contract Data.
(b) The Employer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.

(c) The Employer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects.
(d) The Employer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
(e) The effect on the Contractor of any of the Employer's Risks.
(f) The Employer unreasonably delays issuing a Certificate of Completion.
(g) Other Compensation Events listed in the Contract Data or mentioned in the Contract.

If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date is extended. The Employer shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.
As soon as information demonstrating the effect of each Compensation event upon the Contractor's forecast cost has been provided by the Contractor, it is to be assessed by the Employer and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Employer shall adjust the Contract Price based on Employer's own forecast. The Employer will assume that the Contractor will react competently and promptly to the event.
The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Employer.

39. Tax

The rates quoted by the Contractor shall be deemed to be exclusive of GST and inclusive of other taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

40. Price Adjustment: Refer Section 6: Contract Data

41. Liquidated damages:

The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.
If the Intended Completion Date is extended after liquidated damages have been paid, the Employer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment of bill.

42. Advance Payments: Refer Section 6: Contract Data

43. Securities:

The Security deposit (including additional security for unbalanced tenders) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and type of instrument acceptable to the Employer. The Security deposit shall be valid until a date 30 days from the date of

expiry of Defects Liability Period and the additional security for unbalanced tenders shall be valid until a date 30 days from the date of issue of the certificate of completion.

44. Cost of Repairs:

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

45. Completion

The Contractor shall request the Employer to issue a Certificate of Completion of the Works and the Employer will do so upon deciding that the Work is completed.

46. Taking over

The Employer shall take over the Site and the Works within seven days of issuing a certificate of Completion.

47. Final account

The Contractor shall supply to the Employer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 90 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer shall issue within 90 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Employer shall decide on the amount payable to the Contractor and make payment within 60 days of receiving the Contractor's revised account.

48. As built drawings and /or Operating and Maintenance Manuals

If "as built" (*Completion drawings*) Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.
If the Contractor does not supply the Drawings by the dates stated in the Contract Data, or they do not receive the Employer's approval, the Employer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

49. Termination

The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
Fundamental breaches of Contract include, but shall not be limited to the following:

(a) the Contractor stops work for 45 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Employer;
(b) Deleted.
(c) The Contractor becomes bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
(d) Deleted.
(e) the Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;
(f) the Contractor does not maintain a security which is required;
(g) the Contractor has delayed the completion of works by the number of days for which the maximum number of liquidated damages can be paid as defined in the Contract data; and
(h) if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in the executing the Contract.
For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract

execution. “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.”

When either party to the Contract gives notice of a breach of contract to the Employer for a cause other than those listed under Sub Clause 49.2 above, the Employer shall decide whether the breach is fundamental or not.

Notwithstanding the above, the Employer may terminate the Contract for convenience.

If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

50. Payment upon Termination

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Employer shall prepare bill for the value of the work done less advance payments received up to the date of the bill, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.

If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Employer shall prepare bill for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract, and less taxes due to be deducted at source as per applicable law and make payment accordingly.

51. Property

All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor’s default.

52. Release from performance

If the Contract is frustrated by any event entirely outside the control of either the Employer or the Contractor the Employer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made

F. Special Conditions of Contract

1. Labour :

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Employer, deliver to the Employer a return in detail, in such form and at such intervals as the Employer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Employer may require.

2. Compliance with labour regulations:

During continuance of the contract, the Contractor shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, Employer shall have the right to deduct any money due

to the Contractor including his amount of security deposit. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor in no case shall be treated as the employees of the Employer at any point of time.

3. Protection of Environment:

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. During continuance of the contract, the contractor shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that maybe passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.

4. Arbitration (Clause 24):

4.1 The procedure for arbitration shall be as follows:

(a) In case of dispute or difference arising between the Employer and the Contractor relating to any matter arising out of or connected with this agreement it shall be settled in accordance with the Arbitration and Conciliation Act 1996. The disputes or differences shall be referred to a Sole Arbitrator. The Sole Arbitrator shall be appointed by agreement between the parties; failing such agreement, by the Appointing Authority (any one of the Organizations as per list enclosed in Annexure).

(b) Arbitration proceedings shall be held at Bangalore, Karnataka, India

(c) The cost and expenses of arbitration proceedings will be paid as determined by the Arbitrator. However the expenses incurred by each party in connection with the preparation, presentation, etc., shall be borne by each party itself.

(d) Performance under the contract shall continue during the arbitration proceedings and payments due the Contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.

5. In the case of the death of a Contractor after executing the agreement / commencement of the work, his legal heir, if an eligible registered Contractor and willing can execute and complete the work at the accepted tender rates irrespective of the cost of the work.

6. The Contractor shall provide One four-wheeler along with driver, fuel expenses to Project Engineers in-charge of work to facilitate and co-ordinate the supervision of the work.

7. The Contractor shall establish field lab and field office to facilitate quality assurance of execution of works.

Annexure:

LIST OF ORGANIZATIONS WHO ARE CONSIDERED AS APPOINTING AUTHORITY FOR APPOINTMENT OF ARBITRATORS

1. Indian Council of Arbitration, New Delhi;
2. International Centre for Alternative Disputes Resolution (India);
3. Indian Roads Congress;
4. Indian Building Congress;
5. Indian Institute of Bridge Engineers;
6. Indian Institute of Public Health Engineers;
7. Institute of Water Works

SECTION 6: CONTRACT DATA

Items marked "N/A" do not apply in this Contract.

The following documents are also part of the Contract:	**Clause Reference**
• The Schedule of Operations Manuals	[48]
• The Methodology and Program of Construction	[25]
• Site Investigation Reports	[14]
• The Schedule of Key and Critical Equipment to be deployed on the work as per agreed program of construction.	[25]

The Employer is:

Name: **The Managing Director** [1.1]
BSWML, Bangalore

Name of authorized Representative:
Office of the Deputy General Manager-2,
BSWML,1st Floor, UNI Building,
Thimmaiah road, Bengaluru-560052

The name and identification number of the Contract is **DGM-2/BSWML/TEND/04/2024-25, Date:09.09.2024**
[1.1]

"Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site."

The Works consist of Construction of Embankment, Providing & Laying at bottom and sides of Quarry pit Geosynthetic Clay Liner of thickness 6mm, Providing & Supplying & Laying of 1.5mm thick black HDPE texured Geomembrane in the quarry pits, Supply & Installation of Non-Woven Geotextile made out of Virgin Polypropylene material having mass of 200 grams and Construction of new roads, drains and providing other basic infrastructure works.
The start date shall be the date of issue of notice to proceed with the work. [1.1]

The Intended Completion Date for the whole of the Works is **12 months** with the following milestones [17, 26]

The Defects Liability Period: 12 Months for Village developmental works.

The Site Possession Date is: Date of work order [21]

The Site is located at **Mahadevapura constituency** [1.1]

"Establishment of New landfill site at Mittaganahalli and Kannuru (Balance portion) and development of surrounding villages by creating required infrastructure in Mahadevapura Constituency. Village development works in Mahadevapura constituency around Mandur legacy waste Bio-Mining site."

Insurance requirements are as under:

	Type of Cover	Minimum cover for Insurance[6]
(i)	Works and of Plant and materials	The sum stated in the Agreement (contract Value) plus 20%
(ii)	Loss or damage to equipment	Full replacement cost
(iii)	Loss or damage to property of Third Party	Full replacement cost
(iv)	Personal injury or death insurance (a) for Third Party[7]	5.00 Lakhs each person
	(b) for Contractor's employees or labour	In accordance with the statutory requirements applicable to Karnataka Rs. 5.00Lakhs each person

Price Adjustment Formula
R= Value of work as defined in Clause 40.1 of Conditions of Contract.
Adjustment for labour component:

(i) Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula:

VL = 0.85 X PL /100 X R X(Li - Lo) /Lo Where,

VL = Increase or decrease in the cost of work during the quarter under consideration due to changes in rates for local labour;

Lo = The average consumer price index for industrial workers for ……. Centre for the quarter preceding the date of opening of tenders as published by the Labour Bureau, Ministry of Labour, Government of India;

Li = The average consumer price index for industrial workers for ……. Centre for the quarter under consideration as published by Labour Bureau, Ministry of Labour, Government of India

PL = Percentage of labour component of the work

Adjustment for Cement Component:

(ii) Price adjustment for increase or decrease in the cost of cement component procured by the contractor shall be paid in accordance with the following formula.

VC = 0.85 X PC /100 X R X (Ci - Co) /Co , Where,

VC = Increase or decrease in the cost of the work during the quarter under consideration due to changes in the rates

for cement;

Co = The all India average wholesale price index for cement (Ordinary Portland Cement) for the quarter preceding the date of opening of the tenders as published by the Office of Economic Advisor, Ministry of Commerce and Industry, Government of India , New Delhi;

Ci = The all India average wholesale price index for cement (Ordinary Portland Cement) for the quarter under consideration as published by the Office of Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

PC = Percentage of cement component of the work

Note: For the application of this clause index of Ordinary Portland Cement has been chosen to represent Cement Group

Adjustment for steel component:

(iii) Price adjustment for increase or decrease in the cost of steel procured by the contractor shall be paid in accordance with the following formula.

VS = 0.85 X PS /100 X R X (Si – So)/So where,

VS = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rates for steel;

So = The all India average wholesale price index for steel (M.S.Bars and rods) for the quarter preceding the date of opening of Bids as published by the Office of Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

Si = The all India average wholesale price index for steel (M.S. Bars and Rods) for the quarter under consideration as published by the Office of Economic Advisor, Ministry of Commerce and Industry, New Delhi

PS = Percentage of steel component of the work

Note: For the application of this clause, index of M.S.Bars and Rods has been chosen to represent steel group.

Adjustment of Bitumen Component:

(iv) Price adjustment for increase or decrease in the cost of bitumen shall be paid in accordance with the following formula:

VB = 0.85 X PB/100 X R X (Bi – Bo)/Bo , Where

VB = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rate for bitumen.

Bo = The official retail price of bitumen at the IOC /HPCL/BPL or any other depot at ……. on the day 30 days prior to the date of opening of Bids.

Bi = The official retail price of bitumen at the IOC/HPCL/BPL or any other depot at ……. for the 15th day of the middle calendar month of the quarter under consideration.

PB = Percentage of bitumen component of the work.

Adjustment of Fuel and Lubricant component:

(v) Price adjustment for increase or decrease in cost of Fuel and Lubricants shall be paid in accordance with the following formula:

VF = 0.85 X PF /100 X R X (Fi - Fo)/ Fo, Where,

VF = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rates for Fuel and Lubricants.

Fo = The official retail price of High Speed Diesel (HSD) at the IOC/HPCL/BPL or other consumer pump at ……. on the day 30 days prior to the date of opening of Bids.

Fi = The official retail price of HSD at the IOC/HPCL/BPL or other consumer pump at ……. for the 15th day of the middle calendar month of the quarter under consideration.

PF = Percentage of Fuel and Lubricant component of the work.

Note: For the application of this Clause the price of HSD has been chosen to represent Fuel and Lubricant Group

Adjustment for Plant and Machinery Spares Component:

(vi) Price adjustment for increase or decrease in the cost of plant and machinery spares procured by the contractor shall be paid in accordance with the following formula:

VP = 0.85 X PP/100 X R X (Pi – Po)/Po , Where

VP = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rates for plant and machinery spares.

Po = The all India average wholesale price index for Heavy machinery and parts for the quarter preceding the date of opening of bids, as published by the Office of the Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

Pi = The all India average wholesale price index for Heavy machinery and parts for the quarter under consideration as published by the Office of the Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

PB = Percentage of Plant and Machinery Spares component of the work.

Note: For the application of this Clause index of Heavy Machinery and Parts has been chosen to represent the Plant and Machinery Spares Group.

Adjustment for Other materials.

(vii) Price adjustment for increase or decrease in the cost of other materials other than cement, steel, bitumen and Fuel and Lubricants48, procured by the contractor shall be paid in accordance with the following formula:

VM = 0.85 X PM/100 X R X (Mi – Mo)/Mo , Where

VM = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rates for local materials other than cement, steel, bitumen and Fuel and Lubricants.

Mo = The all India average wholesale price index for all commodities for the quarter preceding the date of opening of bids, as published by the Office of the Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

Mi = The all India average wholesale price index for all commodities for the quarter under consideration as published by the Office of the Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

PM = Percentage of other material component (Other than cement, steel, bitumen and Fuel and Lubricants) of the work.

The following percentages will govern the price adjustment for the entire contract:

1. Labour – PL …….. %

2. Cement – PC ……%

3. Steel – PS ……%

4. Bitumen – PB ……%

5. Fuel and Lubricants – PF ……%

6 Plant and Machinery Spares – PP …….%

7 Other materials – PM …….%

TOTAL 100 %

The liquidated damages for the whole of the works are Rs.7,14,800.00 (amount) per day and that for the Milestones are as under:

For Milestone 1:	Rs. 2,38,266.00 per day
For Milestone 2:	Rs. 2,38,266.00 per day
For Milestone 3:	Rs. 2,38,266.00 Per day

The maximum amount of liquidated damages for the whole of the works is Ten percent of final contract price. [41]

The amounts of the advance payment are [42]

Nature of Advance	Amount (Rs.)	Conditions to be fulfilled
1. Mobilization	5% of the Contract price	On submission of un-conditional Bank Guarantee. (to be drawn before end of 20% of Contract period)

(The advance payment will be paid to the Contractor no later than 30 days after fulfillment of the above conditions).

Repayment of advance payment for mobilization : [42]

The advance loan shall be repaid with percentage deductions from the interim payments certified by the Engineer under the Contract. Deductions shall commence in the next Interim Payment Certificate following that in which the total of all such payments to the Contractor has reached not less than 15 percent of the Contract Price or Three months from the date of payment of first installment of advance, whichever period concludes earlier, and shall be made at the rate of 7.5% percent of the amounts of all Interim Payment Certificates until such time as the loan has been repaid, always provided that the loan shall be completely repaid prior to the expiry of the original time for completion pursuant to Clauses 17 and 26.

SECTION 8: DRAWINGS

As per approved DPR

BILL OF QUANTITIES

SI No	Description of Item	Unit	Total Quantity	Rate in Rs.	
				In Figures	In Words
1	Earth work excavation by manual means for drains, canals, waste weir draft, approach channels, key trench, foundation of Buildings & Bridges and such similar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work In all kinds of soils Depth upto 1.5 m	Cum	8887.06	249.26	Rupees Two Hundred Forty Nine And Paise Twenty Six Only
2	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.2.1.3 Mix 1:3:6 Using 40 mm nominal size graded crushed coarse aggregates	Cum	1353.89	6168.67	Rupees Six Thousand One Hundred Sixty Eight And Paise Sixty Seven Only
3	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.H. All other type of structures	Tonnes	233.90	81381.33	Rupees Eighty One Thousand Three Hundred Eighty One And Paise Thirty Three Only
4	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super	Cum	2620.81	8725.74	Rupees Eight Thousand Seven Hundred Twenty Five And Paise Seventy Four Only

	plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates				
5	Providing and laying 100mm thick pre-cast cover slabs over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete	Sqm	2403.90	1205.10	Rupees One Thousand Two Hundred Five And Paise Ten Only
6	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead (ii) By Mechanical Means b Prestressed / RCC grade M-20 & Above	Cum	1475.82	1141.24	Rupees One Thousand One Hundred Forty One And Paise Twenty Four Only
7	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.In all kinds of soils upto 300 mm depth	Cum	27327.29	97.85	Rupees Ninety Seven And Paise Eighty Five Only
8	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 (v) For Grading -V Material	Cum	12103.85	2561.61	Rupees Two Thousand Five Hundred Sixty One And Paise Sixty One Only
9	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material	Cum	10854.38	2635.77	Rupees Two Thousand Six Hundred Thirty Five And Paise Seventy Seven Only

	with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting withvibratory roller to achieve the desired density.				
10	Prime Coat over WMM/WBM Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70 kg/m2 using mechanical means.	Sqm	57869.40	42.23	Rupees Forty Two And Paise Twenty Three Only
11	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @4.0 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects Dense Graded Bituminous Macadam Grading - I for traffic<20 MSA	Cum	2893.47	9042.37	Rupees Nine Thousand Forty Two And Paise Thirty Seven Only
12	Tack coat on Bituminous surface Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom	Sqm	60739.40	12.36	Rupees Twelve And Paise Thirty Six Only
13	Providing and laying Bituminous Concrete with not less than 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30 @ 4.78% Bitumen and waste plastic 8% of Bitumen of mix and filler,transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.507 complete in all respects A Bituminous Concrete Grading I Using waste plastic	Cum	2286.08	10393.73	Rupees Ten Thousand Three Hundred Ninety Three And Paise Seventy Three Only
14	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level,uniform and free from streaks and holes.	Sqm	2380.95	545.90	Rupees Five Hundred Forty Five And Paise Ninety Only

15	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 14:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 140 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 7 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing.	Cum	2528.29	5067.60	Rupees Five Thousand Sixty Seven And Paise Sixty Only
16	Construction of M30 Grade un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with OPC @ 270 kg/m3 and GGBS@ 90 kg/m3, coarse and fine aggregate conforming to IS 383:2016, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design transported to site, laid with a paver finisher, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation Pavement Quality M30 grade Concrete (RMC) with OPC & GGBS laid using Paver membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures, curing compound, steel channels, finishing to lines and grades as per drawing.	Cum	3792.44	8074.17	Rupees Eight Thousand Seventy Four And Paise Seventeen Only
17	Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 14 m3)	Cum	36680.38	88.58	Rupees Eighty Eight And Paise Fifty Eight Only
18	Cost of Haulage Excluding Loading and Unloading Case-1 : Surfaced Road Taking output 25 tonnes load and lead 10 km = 250 t.km	t.km	476845.00	7.21	Rupees Seven And Paise Twenty One Only
19	Providing S&S RCC SPUN / VIBRATED CAST PIPES (REINFORCED) pipes NP-3 Class conforming to IS:458-1988 with latest amentments using ordinary portland cement, for sanitary works and conveying to work site, rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes and specials, perfect linking of joints with jack to correct position including cost of jointing materials, i.e, rubber rings conforming to IS: 5382 for S&S RCC pipes, with all leads and lifts as directed and giving necessary hydraulic test as per ISS to the required pressure and commissioning etc. complete. (Contractor will make his own arrangements for procuring water for testing). Before the	Mtr	280.00	1371.96	Rupees One Thousand Three Hundred Seventy One And Paise Ninety Six Only

	execution of the work, the contractor shall carry out the Survey RCC NP3 Class pipe of 300 mm dia				
20	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m	Cum	346.21	105.06	Rupees One Hundred Five And Paise Six Only
21	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.A Buildings	Tonnes	6.15	92140.71	Rupees Ninety Two Thousand One Hundred Forty And Paise Seventy One Only
22	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	10.41	6750.51	Rupees Six Thousand Seven Hundred Fifty And Paise Fifty One Only
23	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications..M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	15.71	10243.35	Rupees Ten Thousand Two Hundred Forty Three And Paise Thirty Five Only

24	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6 kg/m2 to achieve final DFT (Dry Film Thickness) of 1mm including prime coat of epoxy primer @150 g/m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification.	Sqm	77.00	841.51	Rupees Eight Hundred Forty One And Paise Fifty One Only
25	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches,basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @ 3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications	Sqm	134.95	121.54	Rupees One Hundred Twenty One And Paise Fifty Four Only
26	Providing Coursed rubble masonry (first sort) with hard stone in foundation and plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	129.04	6816.54	Rupees Six Thousand Eight Hundred Sixteen And Paise Fifty Four Only
27	Providing Coursed rubble masonry (second sort) with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	103.23	6391.15	Rupees Six Thousand Three Hundred Ninety One And Paise Fifteen Only
28	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	41.47	9830.84	Rupees Nine Thousand Eight Hundred Thirty And Paise Eighty Three Only

29	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications..M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	2.66	11609.13	Rupees Eleven Thousand Six Hundred Nine And Paise Thirteen Only
30	Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications..M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	4.70	10926.24	Rupees Ten Thousand Nine Hundred Twenty Six And Paise Twenty Four Only
31	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	110.32	273.98	Rupees Two Hundred Seventy Three And Paise Ninety Eight Only
32	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	356.90	1267.93	Rupees One Thousand Two Hundred Sixty Seven And Paise Ninety Three Only
33	Providing 12 mm cement plaster with Cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineerin-charge.	Sqm	209.53	332.69	Rupees Three Hundred Thirty Two And Paise Sixty Nine Only

34	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per direc tions of Engineer-in-charge	Sqm	121.03	364.62	Rupees Three Hundred Sixty Four And Paise Sixty Two Only
35	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.	Sqm	220.03	103.00	Rupees One Hundred Three Only
36	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 ltr/10 m² over and including one coat of Special primer applied @ 0.75 ltr /10 m² with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	319.40	162.74	Rupees One Hundred Sixty Two And Paise Seventy Four Only
37	Providing and laying vitrified floor tiles with thickness 9-10 mm in different sizes with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 600x600 mm	Sqm	80.70	1210.25	Rupees One Thousand Two Hundred Ten And Paise Twenty Five Only
38	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rub bing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : ** Flamed finish granite stone slab Black, Cat Eye, River Pink or equivalent.	Sqm	13.40	2539.98	Rupees Two Thousand Five Hundred Thirty Nine And Paise Ninety Eight Only
39	Supplying heavy gauge PVC conduit pipe ..... mmdia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and	Mtr	550.00	69.00	Rupees Sixty Nine Only

	pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 19/20 mm dia 2 mm thick				
40	Supplying heavy gauge PVC conduit pipe ..... mmdia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25 mm dia 2 mm thick	Mtr	200.00	81.00	Rupees Eighty One Only
41	Supplying heavy gauge PVC conduit pipe ..... mmdia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 32 mm dia 2.5 mm thick	Mtr	60.00	106.00	Rupees One Hundred Six Only
42	Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary 19/20 mm dia 2 mm thick	Mtr	350.00	68.00	Rupees Sixty Eight Only
43	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc 100 x 75 x 65 mm	Each	3.00	118.00	Rupees One Hundred Eighteen Only
44	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc 200 x 200 x 65 mm	Each	3.00	348.00	Rupees Three Hundred Forty Eight Only
45	Supplying and fixing PVC/metal conduit Deep junction box 25 mm deep Junction box	Each	15.00	56.00	Rupees Fifty Six Only
46	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box,elbows, screws at an interval of 300 mm .... etc. as required.	Each	20.00	28.00	Rupees Twenty Eight Only
47	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box,elbows, screws at an interval of 300 mm .... etc. as required.	Each	20.00	35.00	Rupees Thirty Five Only

48	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1 mm2	Mtr	1000.00	19.00	Rupees Nineteen Only
49	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5 mm2	Mtr	1300.00	26.00	Rupees Twenty Six Only
50	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 2.5 mm2	Mtr	1300.00	42.00	Rupees Forty Two Only
51	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 4 mm2	Mtr	1000.00	63.00	Rupees Sixty Three Only
52	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100V as per IS 694:2010 10C x 4 mm2	Mtr	50.00	487.00	Rupees Four Hundred Eighty Seven Only
53	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 1 to 3 Module	Each	3.00	161.00	Rupees One Hundred Sixty One Only
54	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 8	Each	3.00	284.00	Rupees Two Hundred Eighty Four Only
55	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 10-12 Module	Each	3.00	344.00	Rupees Three Hundred Forty Four Only
56	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6A One Way Switch	Each	21.00	102.00	Rupees One Hundred Two Only
57	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 Stepped Fan Regulator Two Module	Each	6.00	357.00	Rupees Three Hundred Fifty Seven Only
58	Supplying and fixing of modular switch & connected accessories on existing modular	Each	1.00	180.00	Rupees One Hundred Eighty Only

	switch plate as per IS 3854 and IS 1293 16A One Way Switch				
59	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 16A One Way Switch	Each	3.00	177.00	Rupees One Hundred Seventy Seven Only
60	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 32A DP Switch	Each	3.00	326.00	Rupees Three Hundred Twenty Six Only
61	Supplying and fixing 32A security and energy saving DP switch with key tag suitable to operate on 230 V, 50Hz AC supply & completely wired on existing box	Each	3.00	646.00	Rupees Six Hundred Forty Six Only
62	Supplying and fixing of metal clad industrial plugs and sockets 2pole+earth 250V PLUG	Each	3.00	387.76	Rupees Three Hundred Eighty Seven And Paise Seventy Six Only
63	Supplying And fixing/replacing of 6/16/32A electrical accessories on existing switch board. 6A Pendant Holder	No;s	8.00	71.00	Rupees Seventy One Only
64	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 15" x 12" x 2"	Each	1.00	201.00	Rupees Two Hundred One Only
65	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers	Each	3.00	241.00	Rupees Two Hundred Forty One Only
66	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% lcs). In 4P MCCB, all Poles should have protection for Short-Cicrcuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism THREE Pole 160 A 25 kA	Each	1.00	11050.00	Rupees Eleven Thousand Fifty Only
67	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6-32 A SP	Each	1.00	415.00	Rupees Four Hundred Fifteen Only

68	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc, for operation on 230 V, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system 48" Sweep (1200 mm) Regular model	Each	6.00	2984.00	Rupees Two Thousand Nine Hundred Eighty Four Only
69	Supplying of .....feet -PVC Batten with integrated LED tube ....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition. LED light fitting 1 x 4' - 20/22 W	Each	6.00	690.00	Rupees Six Hundred Ninety Only
70	Supplying & fixing of retrofit type - LED bulb ..... W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per W, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp Wage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 15W, 6500K	Each	8.00	326.00	Rupees Three Hundred Twenty Six Only
71	Supplying and wiring adopting loop system in existing PVCConduit /casing capping using 2x1.5Sqmm (Phase & Neutral) &1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulatedcopper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminatedwith sufficient loose length in a wood/PVC round block. complete foreach outlet.Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Point	1.00	570.00	Rupees Five Hundred Seventy Only
72	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 50mm width x 42mmheight with reinforcement of 1mm thickness and Sash with overall size of 31mm X 57mm with Gi reinforcement of 1mm	Sqm	9.60	6747.53	Rupees Six Thousand Seven Hundred Forty Seven And Paise Fifty Three Only

	for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 21.5mm x 9.5 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock.Wall thickness of frame & sash shall be of 1.8+-0.2 mm. Maximum possible size – 1519mm x 1519mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)				
73	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	Kg	567.00	173.04	Rupees One Hundred Seventy Three And Paise Four Only
74	Providing Mathi/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications	Cum	0.93	127928.06	Rupees One Lakh(s) Twenty Seven Thousand Nine Hundred Twenty Eight And Paise Six Only
75	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemicaly treated hard wood battens and internal frame with minimum 45 mm wide wooden frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification.-do- 30 mm thick both side commercial	Cum	2.73	3095.15	Rupees Three Thousand Ninety Five And Paise Fifteen Only
76	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete :125x85x5.5 mm (heavy type)	No's	6.00	283.25	Rupees Two Hundred Eighty Three And Paise Twenty Five Only
77	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :250x10mm	Each	6.00	448.05	Rupees Four Hundred Forty Eight And Paise Five Only
78	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	Each	2.00	1083.56	Rupees One Thousand Eighty Three And Paise Fifty Six Only
79	Providing and fixing chromium plated brass handles of 100/125 mm with necessary screws etc. complete	Each	4.00	244.11	Rupees Two Hundred Forty Four And Paise Eleven Only

80	Geophysical investigation at site for sinking borewells for Providing drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30%(Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test. etc. complete	No's	20.00	5446.64	Rupees Five Thousand Four Hundred Forty Six And Paise Sixty Four Only
81	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)	Rmt	1000.00	381.10	Rupees Three Hundred Eighty One And Paise Ten Only
82	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)	Rmt	1000.00	477.92	Rupees Four Hundred Seventy Seven And Paise Ninety Two Only

83	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)	Rmt	1000.00	507.79	Rupees Five Hundred Seven And Paise Seventy Nine Only
84	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)	Rmt	1000.00	589.16	Rupees Five Hundred Eighty Nine And Paise Sixteen Only
85	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)	Rmt	1000.00	691.13	Rupees Six Hundred Ninety One And Paise Thirteen Only
86	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)	Rmt	1000.00	762.20	Rupees Seven Hundred Sixty Two And Paise Twenty Only
87	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including	Rmt	1000.00	894.04	Rupees Eight Hundred Ninety Four And Paise Four Only

	transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth)				
88	PVC pipes of 10 Kg/cm2 for 200mm	m	120.00	1189.65	Rupees One Thousand One Hundred Eighty Nine And Paise Sixty Five Only
89	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty	mtr	360.00	1990.99	Rupees One Thousand Nine Hundred Ninety And Paise Ninety Nine Only
90	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	Each	20.00	168.92	Rupees One Hundred Sixty Eight And Paise Ninety Two Only
91	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	Each	20.00	154.50	Rupees One Hundred Fifty Four And Paise Fifty Only
92	Providing Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, to work site as per necessary ammendments and instructions of engineer incharge of work. For 3 HP etc. complete. 10.00 HP - 90 LPM @ 220 m = 20 STG Outlet Dia - 2.00"	Each	20.00	56250.36	Rupees Fifty Six Thousand Two Hundred Fifty And Paise Thirty Six Only
93	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover)50 mm	Each	1299.33	3141.50	Rupees Three Thousand One Hundred Forty One And Paise Fifty Only
94	Supply and delivery at site Brand new best make PVC insulated cable of Flat 3 core	mtr	15640.00	139.05	Rupees One Hundred Thirty Nine And Paise Five Only

	(sheathed) of nominal cross sectional area as per IS 694-1990 with ISI Mark and as per its latest amendments. 1x3x4 Sqm				
95	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI collar:	Each	1299.33	275.01	Rupees Two Hundred Seventy Five And Paise One Only
96	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments.Size 50 mm	Each	20.00	1287.50	Rupees One Thousand Two Hundred Eighty Seven And Paise Fifty Only
97	Supplying of on load change over switches 4 poles,AC-23A Duty,415V,50Hz,ACSupply. Withallaccessories. (SMEnclosure Sheet Metal Execution)100 A	Each	20.00	8790.02	Rupees Eight Thousand Seven Hundred Ninety And Paise Two Only
98	Supplying of TPST with rewirable porcelain channels in SMenclosure. Madeout of 14SWGpowder coatedpaint of approved colour. 32A	Each	20.00	1752.03	Rupees One Thousand Seven Hundred Fifty Two And Paise Three Only
99	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3conta ctors, one adjustable thermal timer mounte dona common base plate held in steel en closure for use on 400/440V3 phase and wired after fixing to the existing wooden board for motor.upto 12.5 HP	Each	20.00	7678.65	Rupees Seven Thousand Six Hundred Seventy Eight And Paise Sixty Five Only
100	Erection of single phase preventer / ammeters / including fixings elector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fusechannel set (3Nos) HRC fuses above100A (3Nos.) / Digital ammeter/digitalvolt meter/set of3indicatinglA/MCB/Relays/A-V select or switches including wiring using suitable capacity wires,bolts, nuts, screws.	Each	20.00	203.94	Rupees Two Hundred Three And Paise Ninety Four Only
101	Fabricating supplying and mounting MS box made out ....SWG suitable for floor /wall mounting, fully weather proofwith provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. 18 SWG	Sqm.cm s	600000.00	0.39	Rupees And Paise Thirty Nine Only
102	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10Kand complete wiringas required confirming to IEC 60898.5.18.7 6-32 A TPN	Each	20.00	1768.51	Rupees One Thousand Seven Hundred Sixty Eight And Paise Fifty One Only
103	Wiring for lighting/power circuit using one of FRLS PVC insulted 1.1 kV grade multi strand copper with low conductor resistance 4 Sqmm single core wire in open are concealed system	Mtr	400.00	50.47	Rupees Fifty And Paise Forty Seven Only

	of wiring with specified IS-694 1990 and conform into GTP of group A				
104	Supplying, fixing and wiring heavy duty lowvoltage capacitors conforming toIS2834. 3phase, 400/440Vgrade, for power factor improvement of rotating machineries like induction motor.	KVAR	720.00	494.40	Rupees Four Hundred Ninety Four And Paise Forty Only
105	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 5.7.3 63 A	Each	120.00	413.03	Rupees Four Hundred Thirteen And Paise Three Only
106	Supplying and fixing of LEDtype panel board indicating lamp with required colour suitable for 230/440VAC. 50 Hz 12/24V D.C.	Each	20.00	530.45	Rupees Five Hundred Thirty And Paise Forty Five Only
107	Supply and Installation /Fixing /Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shockproof, IP65(WeatherProof), rust proof, dustproof,waterproof, corrosion proof having internally Embedded gasket on bothlid and flapsuitable to fix Single Phase/ThreePhase Energy Meter insuitable base plate and having aprovision for Fuse/MCB cut-out with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.5.44.4 600 mm x 600 mm x 170 mm	Each	20.00	14955.60	Rupees Fourteen Thousand Nine Hundred Fifty Five And Paise Sixty Only
108	Supply and delivery at site GM (copper alloy) gate valves confirming to Class-I as per IS 778 with latest amendments, 1 No. screwed in bonnet inside screw, rising spring spindle integral seat screwed females ends confirming to IS 554/ 1990 body hydraulically tested 1.5HP seat standard tested 1 HP with IS mark. 11.15.6 For 50 mm dia GM (Copper alloy) Gate valves	Each	20.00	1738.64	Rupees One Thousand Seven Hundred Thirty Eight And Paise Sixty Four Only
109	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	km	0.40	146097.26	Rupees One Lakh(s) Forty Six Thousand Ninety Seven And Paise Twenty Six Only
110	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 21.05 2.5 to 25 Sqmm	km	0.40	21512.58	Rupees Twenty One Thousand Five Hundred Twelve And Paise Fifty Eight Only
111	Transporting Cable from Store to work spot including loading and unloading (including Crane and other equipment charges if any 20.05 2.5 to 25 Sqmm (Single/3.5/4 Core)	Per KM of Cable	0.40	1222.61	Rupees One Thousand Two Hundred Twenty Two And Paise Sixty One Only
112	Cutting of Road surface for cable trenches and disposing of the excavated earth, as directed including Barricading, Danger Lighting then Refilling the Cable Trenches. Tar Road	Cum	12.00	552.08	Rupees Five Hundred Fifty Two And Paise Eight Only
113	Cutting of Road surface for cable trenches and disposing of the excavated earth, as directed including Barricading, Danger Lighting then Refilling the Cable Trenches. Cement Concrete Road	Cum	18.00	1110.34	Rupees One Thousand One Hundred Ten And Paise Thirty Four Only

114	Earth work excavation for cable trench of 0.5 to 0.75 Mtr. Width and Depth upto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr, Supplying and Displaying necessary Danger Boards and Lighting, Using sight Rails and Sign Boards at every 100 Mtr wherever necessary as directed. In Ordinary Soil or Earth work excavation for pipeline trenches in all kinds of soils by mechanical means as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm wherever necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata.	Cum	401.91	269.86	Rupees Two Hundred Sixty Nine And Paise Eighty Six Only
115	Refilling the cable trenches with selected available earth from trench excavation including watering,consolidation in layers of 15 cm. Thickness including depositing of the surplus earth with a lead of 200 Mtr or Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cm in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum	182.10	164.80	Rupees One Hundred Sixty Four And Paise Eighty Only
116	GI Pipe B - Class as per IS-1239 GI Pipe - 40 mm Dia 60*40mm GSM G.I. Pipe	KG	48.84	184.78	Rupees One Hundred Eighty Four And Paise Seventy Eight Only
117	GI Grounding pipe, B - Class, 42 mm dia, 2.5 Mtr long, 3.2 mm thick with bolt, nut, GI Strips and washer complete Minimum Weight of GI Pipe: 7.3 Kg	No's	20.00	765.29	Rupees Seven Hundred Sixty Five And Paise Twenty Nine Only
118	Good Quality well burnt Charcoal for grounding purposes packed in non returnable gunny bag of 30 Kg each	No's	20.00	696.28	Rupees Six Hundred Ninety Six And Paise Twenty Eight Only
119	Good Quality Salt for grounding purposes packed in 50 Kg gunny bag	No's	20.00	319.30	Rupees Three Hundred Nineteen And Paise Thirty Only
120	Rod Earthing: Rod type of earthing using 40 mm Dia, 3 Mtr long MS rod as ground rod, in earth pit of 300 mm width and 3300 mm depth and using 50x6 mm flat welded to ground rod as terminal & connected to equipment ground terminal using PVC Al wire as specified	No's	20.00	2237.16	Rupees Two Thousand Two Hundred Thirty Seven And Paise Sixteen Only
121	Bentonite clay slurry for earthing in 50 Kg Bag	No's	20.00	379.04	Rupees Three Hundred Seventy Nine And Paise Four Only
122	Epoxy Terminating Kit (Pothead) suitable for 1.1 kV, LTUG Cable Up to 4C x 50 Sqmm	Set	20.00	333.72	Rupees Three Hundred Thirty Three And Paise Seventy Two Only
123	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia	Sqm	450.00	827.09	Rupees Eight Hundred Twenty Seven And Paise Nine Only

	wire or nuts, bolts and washers as required complete as per the direction of Engineer in-charge. (Made of G.I. wire of dia 4 mm)				
124	Providing and laying 60mm thick factory made precast M -30 grade Cement Concrete Paver Block as per IRC SP 63:2018 & IS 15658 for Cycle Tracks & Pedestrian Footpaths of approved shape and colour, laid in required pattern and including over 30mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in charge. (WMM/WBM Base to be paid separately if necessary as per relevant technical specification)	Sqm	605.00	1100.04	Rupees One Thousand One Hundred And Paise Four Only
125	Construction of cement concrete kerb with channel with top and bottom width 115 and 165 mm respectively, 250 mm high in M 20 grade PCC on M10 grade foundation 150 mm thick, kerb channel 300 mm wide, 50 mm thick in PCC M20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, all complete as per clause 409 a. PCC M15 grade for Kerb Base	Mtr	484.00	249.26	Rupees Two Hundred Forty Nine And Paise Twenty Six Only
126	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	Sqm	355.20	112.27	Rupees One Hundred Twelve And Paise Twenty Seven Only
127	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness.By (ii) Mechanical Means using Dozer b) In area of thorny jungle 100 m2	Sqm	4.00	498.52	Rupees Four Hundred Ninety Eight And Paise Fifty Two Only
128	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/m2 including pointing the joints with white cement and matching pigment etc., complete.	Sqm	10.80	1108.28	Rupees One Thousand One Hundred Eight And Paise Twenty Eight Only
129	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Kg	693.00	142.14	Rupees One Hundred Forty Two And Paise Fourteen Only

130	Water purification plants: Providing, Installation and Commissioning of automatic Water purification plant (RO+UF) with all accessories piping, product water tank on single phase power supply as per the enclosed detailed Technical Specifications including cost of material, loading and unloading and as directed by the Engineer in charge. (Ref-detailed specification enclosed seperatly). Note:- 1.The above rates mentioned are only for the preparation of estimate purpose. 2. All items are to be of BSI /NFS standards,with BSI / NFS mark . 3. Tenders to be invited for procurement. 4. No direct payment should be made under any situation or condition or on any account. 5. After commissioning of plant necessary testing to be done for the satisfactory of Engineer Incharge. Note : Refer the ANNEXURE : F for Detailed Specification of Each Componets 100 LPH : Cabin Type	Each	1.00	96820.00	Rupees Ninety Six Thousand Eight Hundred Twenty Only
131	Inspection Chamber (1.5 x 1.5 ft)	Each	1.00	525.75	Rupees Five Hundred Twenty Five And Paise Seventy Five Only
132	UV stabilised 2mm thick corrugated FRP sheet	Sqm	242.60	525.30	Rupees Five Hundred Twenty Five And Paise Thirty Only
133	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 g/m2 as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 m or as desired by Engineer in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	840.00	585.04	Rupees Five Hundred Eighty Five And Paise Four Only
134	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer- in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg/m2, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	154.00	1139.18	Rupees One Thousand One Hundred Thirty Nine And Paise Eighteen Only

135	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead (ii) By Mechanical Means b Prestressed / RCC grade M-20 & Above	Cum	51.00	1141.24	Rupees One Thousand One Hundred Forty One And Paise Twenty Four Only
136	Supplying fully automatic star-delta starter unit push button type withsuitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor.upto 12.5 HP	Each	1.00	7455.00	Rupees Seven Thousand Four Hundred Fifty Five Only
137	Dewatering of accumulated Rain water in the Quarry Pit using Diesel pumps of 10 HP capacity Dewatering pump 10 hp diesel	Hour	4362.57	230.00	Rupees Two Hundred Thirty Only
138	Earth work in surface excavation by mechanical means for lowering & leveling the ground without blasting for all works other than foundation in Ordinary/ Soft rock & depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work	Cum	12301.99	405.44	Rupees Four Hundred Five And Paise Forty Four Only
139	Earth work excavation by manual means for drains, canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work.	Cum	44781.82	498.40	Rupees Four Hundred Ninety Eight And Paise Forty Only
140	Carrying out excavation in hard rock to achieve a specified slope of the rock face by controlled use of explosives and blasting accessories in properly aligned and spaced drill holes, collection of the excavated rock by a 80 HP dozer, loading in tipper by a front end loader and disposing of the material with all lifts and lead, all as specified in clause No. 303	Sqm	91727.00	176.96	Rupees One Hundred Seventy Six And Paise Ninety Six Only

141	Construction of Embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded with desired compaction.	Cum	173659.88	133.28	Rupees One Hundred Thirty Three And Paise Twenty Eight Only
142	Providing & Laying at bottom and sides of Quarry pit Geosynthetic Clay Liner of thickness 6mm combining Geotextile outer layers with a core of bentonite clay bonded by needle punching technology including fabrication, transportation, cutting, lapping/or welding, placing in position, anchoring at the base to anchor trenches using available earth complete as per design (Including lapping and wastages), cost of materials, Labor, HOM of Machinery, loading, unloading, all Lead and Lift, all applicable Taxes etc. complete as per specifications and directions of the Engineer-in-charge of work.	Cum	171686.44	708.75	Rupees Seven Hundred Eight And Paise Seventy Five Only
143	Providing & Supplying & Laying of 1.5mm thick black HDPE texured Geomembrane in the quarry pits ,laying and joining each sheet using wedge welding machine including cost of allmachineries,accessories ,tools and materials consumables as per requirement and as perthe direction of Engineer incharge .	Cum	171686.44	645.75	Rupees Six Hundred Forty Five And Paise Seventy Five Only
144	Supply & Installation of Non-Woven Geotextile made out of Virgin Polypropylene material having mass of 200 grams per square meter	sqm	171686.44	220.50	Rupees Two Hundred Twenty And Paise Fifty Only
145	Providing and laying at bottom of quarry pit High density Polythene perforated pipes 6 kg/sqcm working pressure,110 mm outside diameter suitably connected to to carry the leachate to the leachate collection tank including cost of materials,labour ,machinery,HOM of machinery,loading,unloading,all lead and lifts,etc., complete as perspecifications and direction of Engineer inchargeof work.	m	1540.00	1752.00	Rupees One Thousand Seven Hundred Fifty Two Only
146	Providing and laying in position Cement Concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates	cum	70.02	6963.04	Rupees Six Thousand Nine Hundred Sixty Three And Paise Four Only

147	Providing and laying in position Cement Concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	cum	265.97	9505.94	Rupees Nine Thousand Five Hundred Five And Paise Ninety Four Only
148	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.	Tonnes	15.90	100191.84	Rupees One Lakh(s) One Hundred Ninety One And Paise Eighty Four Only
149	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.	Cum	68400.00	504.34	Rupees Five Hundred Four And Paise Thirty Four Only
150	Providing Bio product solutions prepared at site and spraying on existing and fresh garbage ,accumulated leachate and surrounding area with effective proportion diluted in water to reduce foul smell and control pests including cost of all materials,labour, HOM on machiney ,loading ,unloading,transportation all lead and lifts, taxes etc., Complete asper specifications and directions of Engineer incharge of work.	Ltrs	########	29.20	Rupees Twenty Nine And Paise Twenty Only
151	Hydraulic Excavator of 1.2 m3 bucket (Sl No 51, page No A-44) Common SR 2023-24	Hr	3420.00	1800.00	Rupees One Thousand Eight Hundred Only
152	Dozer - 175 HP (Sl No 26, page No A-43) Common SR 2023-24	hr	1824.00	4193.00	Rupees Four Thousand One Hundred Ninety Three Only
153	Tractor-Trolley (Sl No 127, page No A-47) Common SR 2023-24	Hr	912.00	659.00	Rupees Six Hundred Fifty Nine Only
154	Tipper-14 m3 (Sl No 122 Page No A-47) Common SR 2023-24	Hr	4560.00	1993.00	Rupees One Thousand Nine Hundred Ninety Three Only
155	Vibratory Soil Compactor (10 t) (Sl No 132 Page No A-47) Common SR 2023-24	Hr	2280.00	2005.00	Rupees Two Thousand Five Only
156	Water Tanker (12 KL) (Sl No 133 Page No A-47) Common SR 2023-24	hr	3648.00	945.00	Rupees Nine Hundred Forty Five Only

157	Cleaner, Asphalt sprayer, Driller, Savgani or chavli, White Washer, Colour Washer, Sawyer, Helper to Fitter, Gardener, Cook, Dhobi, Care taker, Hammer man, Lift Operator, Bamboo maker, Helper to Carpenter, Gang man, Boatman, Jumper man, Brick molder, Asphalt Boiler Attendant, Limestone Burner, Mason & Brickler class-II, Carpernter Class -II, Fitter class-II Mechanic class-II, Stone Voddar, Diesel Compressor Operator, Fireman in Bricks Plant, Trained Mali with Certificate, Bisti with water bag, Horticulture Gardener, Glayer, Patkaries, Tile Layer (Glazed Mosaic Tiles etc.), Mess man, Tracer (Certificate holder). Labours for Spraying of Enzymes to controle Foul Odour	Day	684.00	771.60	Rupees Seven Hundred Seventy One And Paise Sixty Only
158	Blacksmith, Stone cutting, Mason or Brick Layer Class I Carpenter Class I Plumber Tin smith Foreman, Sarang, Painter, Fitter Class I Mechanic Class I Pneumatic drilled, Engine Driver, Gas or Electric welder, Gauge Repairer, Laboratory Assistant, Machine Operator, Turner, Welder, Crane Driver, Stone Crusher, Jack Hammer driver, Blaster, Stone Cristler, Floor polisher, Riveter, Mason, Pump Driver, Stone Polisher, Bar Bender, Stone Revetment Builder, Electrician, Maistry or Supervisor/CIerk Grade.I, Horticulture Supervisor, Shovel and Scraper.	Day	342.00	812.00	Rupees Eight Hundred Twelve Only
159	Supplying of premisc/,nuan/Biomass etc., chemical forspraying to control fly menace with all applicable taxes including all lead and lift charges as per the direction of engineer incharges	Ltr	228.00	3456.00	Rupees Three Thousand Four Hundred Fifty Six Only
160	Supplying of Sugar to mix with the chcmical along with the water. For spraying to controle fly menace and all applicable taxes including all lead and lift charges as per the direction of engineer incharges	kgs	2280.00	54.00	Rupees Fifty Four Only
161	Spraying of premise chemical solution prepared by mixing the Chemical with sugar and water @ the ratio 5ml of chemical for 1 litre of water to control fly menace. Spraying Labours - 3 Nos	Nos	171.00	594.00	Rupees Five Hundred Ninety Four Only
162	Supplying preparation and spraying of lemon grass to reduce foul labors and controlin pets including cost of materials and labours for preparation spraying supervision HOM on water tanker fuel charges and crew charges loading unloading transportation labours charges incindenal charges etc... complete and with all lead and lift loading and unloding as per the direction of engineer in charge of work	Ltrs	1156500	16.20	Rupees Sixteen And Paise Twenty Only
163	Procuring of spraying machines to spray above solutions including all lead and fil1 charges as per the direction of engineer incharge	Nos	28.00	2430.00	Rupees Two Thousand Four Hundred Thirty Only
164	Supplying ol pyetrum / king fog ctc..,(contains detamethrine 1.25%l by thermal fogging to	set	342.00	3996.00	Rupees Three Thousand Nine Hundred Ninety Six Only

	control mosquito & menace including all lead and lift charges as per the direction of engineer incharges				
165	Supply mixing of diesel with chemical in required ratio with diesel and petrol in the fogging machine -10 litre/day including all lead and lift charges as per the direction of engineer incharge	Ltr	1995.00	97.20	Rupees Ninety Seven And Paise Twenty Only
166	Labour for fogging in the quarry site and surrounding villages on the vehicle including fogging equipment charges vehicle hire charges and othcr incidental charges with all lead and lifts.	nos	684.00	594.00	Rupees Five Hundred Ninety Four Only
167	providing 230 mm precast slab including all charges for transportaion erecting complete as per specification and as per the directions of Engineer in charge of the work	sqm	84.00	5037.00	Rupees Five Thousand Thirty Seven Only
168	Supplying and fixing M15 grade precast cement concrete Kerb stones for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge. 300 x 300 x 150 mm size (The cost of PCC shall be paid extra	m	700.00	387.28	Rupees Three Hundred Eighty Seven And Paise Twenty Eight Only
169	Construction of Embankment by excavating the available approved Gravel/ Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.	cum	861.00	488.22	Rupees Four Hundred Eighty Eight And Paise Twenty Two Only
170	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	152.25	8792.13	Rupees Eight Thousand Seven Hundred Ninety Two And Paise Thirteen Only

SECTION 10: FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSIT

To: .....*[Name of Employer]*
…… *[address of Employer]*

WHEREAS ……. *[Name and address of Contractor]* (Hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. …….. dated: …… to execute ……..*[name of Contract and brief description of Works]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Rs.……*[Amount of guarantee]* [13]_Rupees……*[in words]*, and we undertake topay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of …… *[amount of guarantee]*[14] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 30 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____
Name of Bank _____
Address _____
Date _____